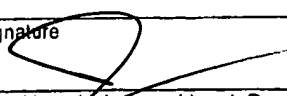


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| Substitute Form PTO-1449<br>(Modified)<br><b>Information Disclosure Statement</b><br><b>by Applicant</b><br>(Use several sheets if necessary)<br>FEB 21 2006<br>PATENT OFFICE | U.S. Department of Commerce<br>Patent and Trademark Office |  | Attorney's Docket No.<br>17601-043001 | Application No.<br>10/630,345 |
|   | Applicant<br>Joseph A. Zupanick                            |  |                                       |                               |
|   | Filing Date<br>July 29, 2003                               |  | Group Art Unit<br>3673                |                               |

| U.S. Patent Documents |           |                 |                  |                   |       |          |                            |
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| Examiner Initial      | Desig. ID | Document Number | Publication Date | Patentee          | Class | Subclass | Filing Date If Appropriate |
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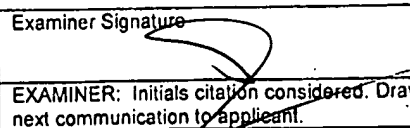
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| Examiner Signature<br>  | Date Considered<br>3/16/06 |
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| Substitute Form PTO-1449<br>(Modified)<br><br><b>Information Disclosure Statement<br/>by Applicant</b><br>(Use several sheets if necessary)<br><br>(37 CFR §1.98(b)) | U.S. Department of Commerce<br>Patent and Trademark Office |  | Attorney's Docket No.<br>17601-043001 | Application No.<br>10/630,345 |
|  | Applicant<br>Joseph A. Zupanick                            |  |                                       |                               |
|  | Filing Date<br>July 29, 2003                               |  | Group Art Unit<br>3673                |                               |

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| Examiner Initial  | Desig. ID | Document Number   | Publication Date | Country or Patent Office | Class | Subclass | Translation |    |
|   |           |                   |                  |                          |       |          | Yes         | No |
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|   | B2        | WO 2005/003509 A1 | 01/13/2005       | WIPO                     |       |          | N/A         |    |

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| Substitute Form PTO-1449<br>(Modified)   | U.S. Department of Commerce<br>Patent and Trademark Office | Attorney's Docket No.<br>17601-043001 | Application No.<br>10/630,345 |
| <b>Information Disclosure Statement<br/>by Applicant</b><br>(Use several sheets if necessary)<br>(37 CFR §1.98(b)) |  | Applicant<br>Joseph A. Zupanick       |                               |
|  |  | Filing Date<br>July 29, 2003          | Group Art Unit<br>3673        |

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| ✓   | C7        | Tom Engler and Kent Perry, "Creating a Roadmap for Unconventional Gas R&D," Gas TIPS, Fall 2002, pp. 16-20   |
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|   | C10       | Jeffrey R. Levine, Ph.D., "Matrix Shrinkage Coefficient," Undated, 3 pages   |
|   | C11       | G. Twombly, S.H. Stepanek, T.A. Moore, "Coalbed Methane Potential in the Waikato Coalfield of New Zealand: A Comparison With Developed Basins in the United States, 2004 New Zealand Petroleum Conference Proceedings, March 7-10, 2004, pp. 1-6   |
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|   | C16       | Notification of Transmittal of the International Search Report and the Written Opinion of the International Searching Authority, or the Declaration (3 pages), International Search Report (3 pages) and Written Opinion of the International Searching Authority (5 pages) re International Application No. PCT/US2005/002162 mailed April 22, 2005   |
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|   | C18       | Notification of Transmittal of the International Search Report and the Written Opinion of the International Searching Authority, or the Declaration (3 pages), International Search Report (5 pages) and Written Opinion of the International Searching Authority (5 pages) re International Application No. PCT/US2004/036616 mailed February 24, 2005  |
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| <b>Information Disclosure Statement<br/>by Applicant</b><br>(Use several sheets if necessary)<br>(37 CFR §1.98(b)) |  | Applicant<br>Joseph A. Zupanick       |                               |
|  |  | Filing Date<br>July 29, 2003          | Group Art Unit<br>3673        |

| Other Documents (include Author, Title, Date, and Place of Publication) |           |   |
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| Examiner Initial  | Desig. ID | Document  |
|   | C20       | Notification of Transmittal of International Preliminary Examination Report (1 page) and International Preliminary Examination Report (5 pages) mailed January 18, 2005 and Written Opinion (8 pages) mailed August 25, 2005 for International Application No. PCT/US03/30126   |
|   | C21       | Notification of Transmittal of the International Search Report or the Declaration (3 pages) and International Search Report (5 pages) mailed November 10, 2000 for International Application No. PCT/US99/27494   |
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|   | C23       | Notification of Transmittal of the International Search Report or the Declaration (3 pages) and International Search Report (5 pages) mailed June 6, 2002 for International Application No. PCT/US02/02051  |
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|   | C26       | Notes on Consol Presentation (by P. Thakur) made at IOGA PA in Pittsburgh, Pennsylvania on May 22, 2002 (3 pages)   |
|   | C27       | Notification of Transmittal of the International Preliminary Report of Patentability (1 page) and International Preliminary Report on Patentability (12 pages) mailed January 9, 2006 for International Application No. PCT/US2004/036616   |
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| Examiner Signature<br>  | Date Considered<br>3/16/06 |
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